

Impressions

acoustic solution



3
seconds
reverb



1
second
reverb

Understanding Acoustics

Reverberation

- The #1 factor affecting the acoustics in an interior is the reverberation time of sound energy from voices.
- 3 seconds reverberation = high 'background noise'
- 1 second reverberation = ideal acoustic environment
- Impressions acoustic tiles effectively absorb the sound energy of voices thus contributing to an ideal acoustic environment of 1 second or less reverberation time.

NRC

- NRC of 0 = perfect reflection (noisy)
NRC of 1 = perfect absorption
- Impressions overall NRC rating is 0.55 and comparable to most acoustic tiles in the marketplace.
- Impressions NRC rating is 0.77-0.93 at 1,000 – 2,000 Hertz where the human voice registers.

Acoustic Test Results

1/3 Octave Center Frequency (Hz)	Absorption Coefficient (Sabins/Ft2)
500	0.36
1000	0.77
2000	0.93
4000	0.90
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Average NRC	0.55